केंद्र शासन पुरस्कृत अमृत २.० अभियान
नवी मुंबई महानगरपालिकेच्या पाणीपुरवठा
प्रकल्पास प्रशासकीय मान्यता देण्याबाबत.
(रु. १३३.२८ कोटी)

महाराष्ट्र शासन
नगर विकास विभाग
शासन निर्णय क्रमांक अमृत-२०२४/प्र.क्र.५२७/नवि-३३
मंत्रालय, मुंबई - ४०० ०३२
दिनांक : १५ ऑक्टोबर, २०२४

संदर्भ :-

१. केंद्र शासनाने केंद्र पुरस्कृत अमृत २.० अभियानाच्या ऑक्टोबर, २०२१ मध्ये निर्गमित केलेल्या मार्गदर्शक सुचना
२. पाणी पुरवठा व स्वच्छता विभाग, शासन निर्णय क्र: ग्रापाधो-२०२१/ प्र.क्र.१२२/ पापु-०६, दिनांक २९ जून, २०२२
३. नगर विकास विभाग, शासन निर्णय क्र: अमृत २०२२/प्र. क्र.१४१/नवि- ३३, दिनांक १४ जुलै, २०२२.
४. नगर विकास विभाग, शासन परिपत्रक क्र : अमृत २०२२/प्र.क्र.२०३/नवि- ३३, दिनांक १६ सप्टेंबर, २०२२.
५. नगर विकास विभाग, शासन परिपत्रक क्र : अमृत २०२३/प्र.क्र.३३१/नवि- ३३, दिनांक ०८ नोव्हेंबर, २०२३.
६. नगर विकास विभाग शासन निर्णय क्र: अमृत-२०२४/प्र.क्र.८३/नवि-३३, दिनांक ०७ मार्च, २०२४.
७. नगर विकास विभाग शासन निर्णय क्र: अमृत-२०२४/प्र.क्र.२०१/नवि-३३, दिनांक १३ मार्च, २०२४.
८. मुख्य अभियंता, महाराष्ट्र जीवन प्राधिकरण, ठाणे विभाग यांचे तांत्रिक मान्यतेचे आदेश क्र. मजीप्रा/मु.अ./ठाणे/ॲग्युमेंटेशन्स स्काडा सिस्टम/तांशा-१/२१३३, दिनांक २० सप्टेंबर, २०२४.
९. अमृत २.० अभियानांतर्गत गठीत करण्यात आलेल्या राज्यस्तरीय तांत्रिक मान्यता समितीच्या दिनांक ०१ ऑक्टोबर, २०२४ रोजी झालेल्या बैठकीचे इतिवृत्त.

प्रस्तावना :-

केंद्र शासन पुरस्कृत अमृत २.० अभियानाची संदर्भाधीन अ.क्र.२ येथील शासन निर्णयान्वये सन २०२१-२२ वर्षापासून राज्यामध्ये अंमलबजावणी मुंबई करण्यात येत आहे. सदर अभियानांतर्गत पाणीपुरवठा, सरोवरांचे पुनरुज्जीवन व हरित क्षेत्र विकास इ. पायाभूत सुविधांची निर्मिती राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांमध्ये करण्यात येणार आहे आणि यापूर्वीच्या अमृत अभियानांतर्गत समाविष्ट असलेल्या राज्यातील ४४ शहरांमध्ये मलनि:स्सारणाची सुविधा उपलब्ध करुन देण्यात येणार आहे. त्यानुसार सदर अभियानांतर्गत राज्याच्या रु. २७७९३ कोटी प्रकल्प किंमतीच्या राज्य जलकृती आराखडयास (फक्त Capex किंमत) केंद्र शासनाने मान्यता दिलेली आहे. यामध्ये नवी मुंबई महानगरपालिकेच्या पाणीपुरवठा प्रकल्पाचा समावेश असून संदर्भाधिन क्र. ८ अन्वये मुख्य अभियंता, महाराष्ट्र जीवन प्राधिकरण, ठाणे यांनी दिलेल्या तांत्रिक मान्यतेनुसार त्यास राज्यस्तरीय तांत्रिक

समितीच्या दिनांक ०१ ऑगस्ट, २०२४ रोजीच्या बैठकीत मंजूरी दिलेली आहे. सदर प्रकल्पास प्रशासकीय मान्यता देण्याची बाब शासनाच्या विचाराधीन होती.

शासन निर्णय :-

१. केंद्र शासन पुरस्कृत अमृत २.० अभियानांतर्गत नवी मुंबई महानगरपालिकेच्या संदर्भाधिन क्र. ६ मधील शासन निर्णयान्वये देण्यात आलेली प्रशासकीय मान्यता अधिक्रमीत करुन मुख्य अभियंता, महाराष्ट्र जीवन प्राधिकरण, ठाणे दिलेल्या तांत्रिक मान्यतेनुसार रु. १३३.२८ कोटी प्रकल्प किंमतीच्या पाणीपुरवठा प्रकल्पास परिच्छेद क्र. २ मध्ये नमूद केलेल्या विवरणपत्रात नमूद केल्यानुसार व मुख्य अभियंता, महाराष्ट्र जीवन प्राधिकरण, ठाणे विभाग यांनी दिनांक २० सप्टेंबर, २०२४ रोजीच्या पत्रान्वये दिलेल्या तांत्रिक मान्यतेमधील अटी व शर्तीच्या अधीन राहून या शासन निर्णयाद्वारे प्रशासकीय मान्यता देण्यात येत आहे. सदर प्रकल्पाच्या वित्तीय आकृतिबंध पुढीलप्रमाणे:

(रु.कोटीमध्ये)

नागरी स्थानिक स्वराज्य संस्थेचे नाव	प्रकल्प किंमत	केंद्र शासनामार्फत अनुज्ञेय अनुदान (प्रकल्प किंमतीच्या २५ %)	राज्य शासनामार्फत अनुज्ञेय अनुदान (प्रकल्प किंमतीच्या ४५ %)	नागरी स्थानिक स्वराज्य संस्थेचा हिस्सा (प्रकल्प किंमतीच्या ३० %)
१	२	३	४	५
नवी मुंबई महानगरपालिका	**१३३.२८**	**३३.३२**	**५९.९८**	**३९.९८**

२. नवी मुंबई महानगरपालिकेच्या पाणीपुरवठा प्रकल्पातील घटक व त्यांचे अंदाजित किंमतीचे विवरण पुढीलप्रमाणे आहे व तपशील परिशिष्ट - अ प्रमाणे आहे.

Sl. No.	Description	Amount (Rs.)
1	Providing erecting and commissioning of valves actuators, dismantling joints, flowmeters, instrumentation, SCADA automation on transmission main, ward pumping sation, MIDC tapping and all DMA's in all wards and allied works	960181067
2	Establishing central monitoring stations (CMS) and Ward monitoring stations (WMS) in all wards and allied works	159800789
	Total	1119981856
	18 % GST	201596734
	1% TS Charges	11199819
	Gross Total	1332778409
	Say Rs.	**133.28 Cr.**
प्रकल्प पूर्ण करण्याचा कालावधी कार्यादेश दिनांकापासून १८ महिने		

३. नवी मुंबई महानगरपालिकेच्या सदर पाणीपुरवठा प्रकल्पाची Opex किंमत नवी मुंबई महानगरपालिकेने उभारणे आवश्यक आहे. सदर प्रकल्प पुर्ण करण्याचा कालावधी १८ महिने राहील.

४. नवी मुंबई महानगरपालिकेच्या पाणीपुरवठा प्रकल्पास खालील अटींच्या अधीन राहून प्रशासकीय मंजूरी देण्यात येत आहे: -

४.१. सदर प्रकल्पासाठी कार्यान्वयन यंत्रणा नवी मुंबई महानगरपालिका राहील.

४.२. प्रकल्पासाठी स्थानिक स्वराज्य संस्थेचा हिस्सा नवी मुंबई महानगरपालिकेमार्फत भरण्यात यावा.

४.३. केंद्र शासनाच्या मार्गदर्शक सुचना व राज्य शासनाच्या संदर्भाधीन शासन निर्णयानुसार सदर प्रकल्पाची अंमलबजानवी मुंबई करणे कार्यान्वयन यंत्रणेस बंधनकारक राहील.

४.४. सदर प्रकल्पास मान्यता देताना राज्यस्तरीय तांत्रिक समितीने विहित केलेल्या सर्व अटींची पूर्तता करणे कार्यान्वयन यंत्रणेवर बंधनकारक राहील.

४.५. राज्य शासनाने संदर्भाधिन क्र. २ व ३ नुसार विहित केलेल्या कार्यपध्दतीनुसार सदर प्रकल्पाची निविदा प्रक्रिया व अंमलबजानवी मुंबई विहित कालावधीमध्ये पूर्ण करणे संबंधित कार्यान्वयन यंत्रणेवर बंधनकारक राहील. तसेच, या प्रकल्पासाठी डी. आय. पाईप्ससह सर्व प्रकारच्या पाईप्सचा देखील निविदेत समावेश करण्यात यावा.

४.६. महाराष्ट्र जीवन प्राधिकरणाने केंद्र पुरस्कृत अमृत २.० अभियानातील पाणीपुरवठा व मलनि:स्सारण प्रकल्पांसाठी निर्गमित केलेल्या आदर्श निविदा पुस्तिकेनुसार प्रसिध्द करणे बंधनकारक राहील.

४.७. सदर प्रकल्पाच्या कामाचे कार्यादेश प्रशासकीय मंजूरीच्या आदेशापासून ४५ दिवसांच्या आत देण्यात येतील याची कार्यान्वयन यंत्रणेने दक्षता घ्यावी.

४.८. केंद्र शासन पुरस्कृत अमृत अभियानांतर्गत केंद्र शासनाने विहित केलेल्या सुधारणांची (Reforms) पूर्तता विहित कालावधीत पूर्ण करणे संबंधित अभियान शहरास बंधनकारक राहील.

४.९. निधी वितरणाची कार्यपद्धती : केंद्र शासन पुरस्कृत अमृत २.० अभियानाच्या मार्गदर्शक सूचनेनुसार केंद्र शासन हिश्याचा निधी हा तीन टप्यात (२० %+४० %+ ४० %) वितरीत केला जाणार आहे. त्यानुसार केंद्र शासनाकडून वितरीत निधीच्या प्रमाणात राज्य हिश्याचा निधी केंद्र हिस्सा वितरीत करताना सोबत वितरीत केला जाईल.

४.१०. अमृत अभियानांतर्गत मंजूर प्रकल्पासाठी स्वहिश्याचा निधी उभारताना नागरी स्थानिक स्वराज संस्थांनी त्यांना प्राप्त होणाऱ्या वित्त आयोगाच्या निधीशी सांगड (Convergence) घालणे आवश्यक राहील. यासाठी त्यांनी वित्त आयोगातून मिळणारा निधी चिन्हांकीत करून ठेवावा.

४.११. सदर अभियानाच्या मार्गदर्शक सूचनांनुसार सदर प्रकल्पासाठी वितरीत करण्यात येणारा निधी हा कार्यात्मक साध्यांवर (Functional Outcome) आधारित असणार आहे. तसेच, सदर कार्यात्मक परिणामाची पूर्तता न झाल्यास सदर प्रकल्पास निधी वितरीत करण्यात येणार नाही. सदर बाबींची पूर्तता करण्याची संपूर्ण जबाबदारी आयुक्त, नवी मुंबई महानगरपालिका यांची राहील.

४.१२. सदर प्रकल्पासाठी केंद्र व राज्य शासनाच्या हिश्याचा प्रथम हप्त्याचा निधी कार्यादेश निर्गमित केल्यानंतर नवी मुंबई नगरपरिषदेस वितरीत करण्यात येईल. त्यानुसार केंद्र शासनाने विहित केल्यानुसार उपयोगिता प्रमाणपत्र केंद्र शासनास सादर केल्यानंतर व कार्यात्मक साध्यांची पूर्तता केल्यानंतर पुढील हप्त्याचा केंद्र हिश्याचा व त्याप्रमाणात राज्य हिश्याचा निधी वितरीत करण्यात येईल.

४.१३. अभियानाच्या वित्तिय आकृतीबंधानुसार केंद्र व राज्य शासनाने वितरीत केलेल्या निधीच्या प्रमाणात नागरी स्थानिक स्वराज संस्था हिश्याचा निधी उभा करून सदर खर्चाचे उपयोगिता प्रमाणपत्र केंद्र शासनाने विहित केलेल्या प्रपत्रात शासनास सादर करणे संबंधित नागरी स्थानिक स्वराज संस्थेवर बंधनकारक असणार आहे.

४.१४. सदर प्रकल्पासाठी निधी वितरीत करताना दिलेल्या सूचनांनुसार, सदर प्रकल्पासाठी केंद्र व राज्य शासनाने वितरीत निधीच्या प्रमाणात नवी मुंबई नगरपरिषदेने स्वतंत्र बँक खाते उघडून त्यामध्ये निधी ठेवणे अनिवार्य राहील. सदर प्रकल्पासाठी वितरीत केलेला निधी त्याच प्रकल्पासाठी वापरणे बंधनकारक असून त्याचा वापर इतर प्रयोजनार्थ केल्यास सदर बाब ही गंभीर वित्तिय अनियमितता समजण्यात येईल.

४.१५. राज्य शासनामार्फत नागरी स्थानिक स्वराज्य संस्थेसाठी प्रकल्प मंजूर झाल्यानंतर, मूळ प्रकल्प किंमतीमध्ये पाणीपुरवठा व स्वच्छता विभागाच्या शासन निर्णय क्र.ग्रापाधो-२०२१/प्र.क्र.१२२/पापु-०६, दिनांक २९ जून, २०२२ मध्ये नमुद कारणा व्यतिरिक्त वाढ झाल्यास त्याची संपूर्ण जबाबदारी संबंधित कार्यान्वयन यंत्रणेची राहील. राज्य शासनामार्फत त्या करिता कोणतेही वाढीव अनुदान उपलब्ध केले जाणार नाही.

४.१६. सदर प्रकल्पाची अंमलबजानवी मुंबई विहित कालावधीत पूर्ण करण्याची सर्वस्वी जबाबदारी ही संबंधित कार्यान्वयन यंत्रणा, प्रकल्प व्यवस्थापन सल्लागार व प्रकल्प व्यवस्थापन विकास व व्यवस्थापन सल्लागार यांची संयुक्तरीत्या राहील.

४.१७. प्रकल्पाचे काम सुरु झाल्यानंतर प्रकल्प व्यवस्थापक सल्लागाराने कामाची गुणवत्ता व देयके प्रमाणित केल्यानंतर उपलब्ध निधीच्या मर्यादेत कामाची देयके १५ दिवसांत संबंधित कंत्राटदारास देण्याची जबाबदारी संबंधित कार्यान्वयन यंत्रणेची राहील.

४.१८. अमृत २.० अभियानांतर्गत मार्गदर्शक सूचनेनुसार संदर्भाधिन क्र. ०३ नुसार सदर प्रकल्पासाठी प्रकल्प व्यवस्थापक सल्लागाराची नेमणूक करावी. त्यामध्ये नमूद केल्यानूसार प्रकल्प व्यवस्थापक शुल्क अदा करावे तसा ठराव संबंधीत नागरी स्थानिक स्वराज्य संस्थेने करणे बंधनकारक राहील.

४.१९. नवी मुंबई नगरपरिषदेच्या पाणीपुरवठा प्रकल्पासाठी आवश्यक असलेले पाणी आरक्षण मंजुरी जलसंपदा विभागाकडून सक्षम पातळीवर प्राप्त झाल्याची खातरजमा करून, आवश्यक परवानग्या घेऊन व प्रकल्पातील उपांगाच्या जागा नगरपरिषदेच्या नावावर व ताब्यात असल्याची खातरजमा करून तसेच सदर प्रकल्पासाठी आवश्यक स्वहीस्श्याच्या निधीची तरतूद करून व प्रकल्प राबविण्यासाठी आवश्यक इतर तांत्रिक बाबींची पूर्तता करून आयुक्त, नवी मुंबई महानगरपालिका यांनी संबंधित कामाची निविदा प्रकाशित करावी.

४.२०. प्रकल्प शाश्वत होण्याच्या अनुषंगाने सदर प्रकल्पाच्या सविस्तर प्रकल्प अहवालामध्ये नमूद केलेप्रमाणे पाणीपुरवठा करावी आकारणी करणेबाबत महासभेची मान्यता घेऊन त्याअनुषंगाने आवश्यक कार्यवाही करण्यात यावी.

४.२१. नवी मुंबई महानगरपालिकेस यापूर्वी युआयडीएसएसएमटी/ अमृत अथवा इतर कोणत्याही योजनेंतर्गत मंजुर करण्यात आलेल्या प्रकल्पातील उपांगे व या प्रकल्पातील उपांगे यामध्ये व्दिरुक्ती (Duplication) होत नसल्याची खातरजमा करण्याची जबाबादरी संबंधीत नागरी स्थानिक स्वराज्य संस्था, या प्रकल्पाचे व्यवस्थापन सल्लागार व महाराष्ट्र जीवन प्राधिकरण यांची राहील.

५. केंद्र शासन पुरस्कृत अमृत २.० अभियांनाच्या केंद्र शासनाने निर्गमित केलेल्या सर्व मार्गदर्शक सुचना नवी मुंबई महानगरपालिकेच्या पाणीपुरवठा प्रकल्पास लागू राहतील.

सदर शासन निर्णय महाराष्ट्र शासनाच्या www.maharashtra.gov.in या संकेतस्थळावर उपलब्ध करण्यात आला असून त्याचा संकेताक २०१४१०१५११२०५०२६२५ असा आहे. हा आदेश डिजीटल स्वाक्षरीने साक्षांकित करुन काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने,

SHRIKANT CHANDRAKANT ANDGE

Digitally signed by SHRIKANT CHANDRAKANT ANDGE
DN: c=IN, o=GOVERNMENT OF MAHARASHTRA, ou=URBAN DEVELOPMENT DEPARTMENT, 2.5.4.20=5d5ab93b4e4f2fcd87e12fe19b8965025d482b1bee0fffaa62085c34db6bfd8c, postalCode=400032, st=Maharashtra, serialNumber=D8D9626C9E038380CD235C048F20D7CE74CFFD3A95F2AC3C192E9C991F358271, cn=SHRIKANT CHANDRAKANT ANDGE
Date: 2024.10.15 15:27:15 +05'30'

(श्रीकांत आंडगे)

उप सचिव, महाराष्ट्र शासन

प्रति,

१. मा. मुख्यमंत्री यांचे अप्पर मुख्य सचिव, मंत्रालय, मुंबई
२. मा. उप मुख्यमंत्री यांचे खाजगी सचिव, मंत्रालय, मुंबई
३. मा.मंत्री (पाणीपुरवठा व स्वच्छता) विभाग यांचे खाजगी सचिव.
४. अप्पर मुख्य सचिव, वित्त विभाग यांचे स्वीय सहायक.
५. अप्पर मुख्य सचिव, नियोजन विभाग यांचे स्वीय सहायक.
६. प्रधान सचिव, पाणीपुरवठा विभाग यांचे स्वीय सहायक.
७. प्रधान सचिव, नगर विकास विभाग (२) यांचे स्वीय सहायक.
८. सदस्य सचिव, महाराष्ट्र जीवन प्राधिकरण, मुंबई.

९. आयुक्त तथा संचालक, नगरपंचायत प्रशासन संचालनालय, मुंबई.
१०. कार्यकारी संचालक, महाराष्ट्र नागरी विकास अभियान संचालनालय, मुंबई.
११. विभागीय आयुक्त, अमरावती विभाग.
१२. जिल्हाधिकारी, यवतमाळ.
१३. जिल्हा प्रशासन अधिकारी, यवतमाळ.
१४. आयुक्त, नवी मुंबई महानगरपालिका.
१५. निवड नस्ती, नवि-३३.

परिशिष्ट - अ

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Item No.1				
1	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **800 mm dia P.N 1.6**	10	911,275.00	No	9,112,750.00
	Basic Rate = Rs. 911275 /-				
	911275+0=911275				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.2				
2	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **700 mm dia P.N 1.6**	2	744,983.00	No	1,489,966.00
	Basic Rate = Rs. 744983 /-				
	744983+0=744983				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.3				
3	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with	4	540,867.00	No	2,163,468.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **600 mm dia P.N 1.6**				
	Basic Rate = Rs. 540867 /-				
	540867+0=540867				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.4				
4	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **500 mm dia P.N 1.6**	0	353,968.00	No	-
	Basic Rate = Rs. 353968 /-				
	353968+0=353968				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.4				
4	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body &	3	295,294.00	No	885,882.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **450 mm dia P.N 1.6**				
	Basic Rate = Rs. 295294 /-				
	295294+0=295294				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.5				
5	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **400 mm dia P.N 1.6**	8	217,850.00	No	1,742,800.00
	Basic Rate = Rs. 217850 /-				
	217850+0=217850				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.6				
6	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be	7	190,897.00	No	1,336,279.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **350 mm dia P.N 1.6**				
	Basic Rate = Rs. 190897 /-				
	190897+0=190897				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.7				
7	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **300 mm dia P.N 1.6**	7	161,484.00	No	1,130,388.00
	Basic Rate = Rs. 161484 /-				
	161484+0=161484				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.8				
8	Providing and supplying at site of ductile iron /spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **250 mm dia P.N 1.6**	5	122,226.00	No	611,130.00
	Basic Rate = Rs. 122226 /-				
	122226+0=122226				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.9				
9	Providing and supplying at site of ductile iron	2		No	

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	/spheroidal graphite (S.G.) iron D/F double eccentric resilient seated short body butterfly valves with gear box & handwheel, without bypass arrangement. Valves in accordance with BS EN 593 of PN 10/16 rated, with body & disc of ductile iron confirming to EN 1563/IS 1865 Gr.500/7 or Gr.400/15, Body seat of intergral SG Iron/S.S. AISI 316, seal retaining ring of steel C45/S.S. 1.4436, Shaft of S.S. 1.4021, Peripheral disc seal and "O" rings of WRAS approved EPDM rubber (suitable for drinking water), Internal fasteners of stainless steel A2. Body & disc coated inside & outside with electrostatically applied epoxy powder coated blue colour. (suitable for drinking water.) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be 100% tight shutoff. Face to face is per IS 13095 short body. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 13095. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. **200 mm dia P.N 1.6**		94,454.00		188,908.00
	Basic Rate = Rs. 94454 /-				
	94454+0=94454				
	MJP SSR 21-22 Item no -23 Page no -143				
	Item No.10				
10	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **700 mm dia P.N 1.6**	6	729,770.00	No	4,378,620.00
	Basic Rate = Rs. 729770 /-				
	729770+0=729770				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.11				
11	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel	38	625,517.00	No	23,769,646.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **600 mm dia P.N 1.6**				
	Basic Rate = Rs. 625517 /-				
	625517+0=625517				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.12				
12	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **500 mm dia P.N 1.6**	36	432,348.00	No	15,564,528.00
	Basic Rate = Rs. 432348 /-				
	432348+0=432348				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.13				
13	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS	24	342,354.00	No	8,216,496.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **450 mm dia P.N 1.6**				
	Basic Rate = Rs. 342354 /-				
	342354+0=342354				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.14				
14	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **400 mm dia P.N 1.6**	33	250,551.00	No	8,268,183.00
	Basic Rate = Rs. 250551 /-				
	250551+0=250551				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.15				
15	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **350 mm dia P.N 1.6**	37	207,636.00	No	7,682,532.00
	Basic Rate = Rs. 207636 /-				
	207636+0=207636				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.16				
16	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves	94	90,722.00	No	8,527,868.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **300 mm dia P.N 1.6**				
	Basic Rate = Rs. 90722 /-				
	90722+0=90722				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.17				
17	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **250 mm dia P.N 1.6**	54	67,679.00	No	3,654,666.00
	Basic Rate = Rs. 67679 /-				
	67679+0=67679				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.18				
18	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with	85	38,201.00	No	3,247,085.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **200 mm dia P.N 1.6**				
	Basic Rate = Rs. 38201 /-				
	38201+0=38201				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.19				
19	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **150 mm dia P.N 1.6**	43	24,070.00	No	1,035,010.00
	Basic Rate = Rs. 24070 /-				
	24070+0=24070				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.20				
20	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **100 mm dia P.N 1.6**	14	17,256.00	No	241,584.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Basic Rate = Rs. 17256 /-				
	17256+0=17256				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.21				
21	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **80 mm dia P.N 1.6**	8	13,928.00	No	111,424.00
	Basic Rate = Rs. 13928 /-				
	13928+0=13928				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.22				
22	Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non-rising spindle resil-ient seated glandless sluice valves with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and onnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16) **50 mm dia P.N 1.6**	9	10,969.00	No	98,721.00
	Basic Rate = Rs. 10969 /-				
	10969+0=10969				
	MJP SSR 21-22 Item no -24 Page no -144				
	Item No.23				
23	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **800 mm dia**	10	14,497.35	No	144,973.50

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Basic Rate = Rs. 13807 /-				
	13807+690.35=14497.35				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.24				
24	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **700 mm dia**	8	11,048.10	No	88,384.80
	Basic Rate = Rs. 10522 /-				
	10522+526.1=11048.1				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.25				
25	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **600 mm dia**	42	10,246.95	No	430,371.90
	Basic Rate = Rs. 9759 /-				
	9759+487.95=10246.95				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.26				
26	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **500 mm dia**	36	9,653.70	No	347,533.20
	Basic Rate = Rs. 9194 /-				
	9194+459.7=9653.7				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.27				
27	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **450 mm dia**	27	9,322.95	No	251,719.65
	Basic Rate = Rs. 8879 /-				
	8879+443.95=9322.95				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.28				
28	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **400 mm dia**	41	7,835.10	No	321,239.10
	Basic Rate = Rs. 7462 /-				
	7462+373.1=7835.1				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.29				
29	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour	44	6,494.25	No	285,747.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **350 mm dia**				
	Basic Rate = Rs. 6185 /-				
	6185+309.25=6494.25				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.30				
30	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **300 mm dia**	101	5,269.95	No	532,264.95
	Basic Rate = Rs. 5019 /-				
	5019+250.95=5269.95				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.31				
31	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **250 mm dia**	59	5,080.95	No	299,776.05
	Basic Rate = Rs. 4839 /-				
	4839+241.95=5080.95				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.32				
32	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **200 mm dia**	87	3,899.70	No	339,273.90
	Basic Rate = Rs. 3714 /-				
	3714+185.7=3899.7				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.33				
33	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **150 mm dia**	43	3,748.50	No	161,185.50
	Basic Rate = Rs. 3570 /-				
	3570+178.5=3748.5				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.34				
34	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **100 mm dia**	14	2,385.60	No	33,398.40
	Basic Rate = Rs. 2272 /-				
	2272+113.6=2385.6				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.35				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
35	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **80 mm dia**	8	1,824.90	No	14,599.20
	Basic Rate = Rs. 1738 /-				
	1738+86.9=1824.9				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.36				
36	Lowering, laying and jointing in position following C.I.D/F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.) **50 mm dia**	9	874.65	No	7,871.85
	Basic Rate = Rs. 833 /-				
	833+41.65=874.65				
	(MJP SSR 2021-22, I.No. 4 a Pg. No - 135) + Add 5% for CA				
	Item No.37				
37	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **800 mm dia**	10	152,374.00	No	1,523,740.00
	Basic Rate = Rs. 152374 /-				
	152374+0=152374				
	(MJP E/M SSR 2022-23 I.No. VA 1-17, Page no. 7)				
	Item No.38				
38	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for	8	145,857.00	No	1,166,856.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **700 mm dia**				
	Basic Rate = Rs. 145857 /-				
	145857+0=145857				
	(MJP E/M SSR 2022-23 I.No. VA 1-15, Page no. 7)				
	Item No.39				
39	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **600 mm dia**	42	140,153.00	No	5,886,426.00
	Basic Rate = Rs. 140153 /-				
	140153+0=140153				
	(MJP E/M SSR 2022-23 I.No. VA 1-14, Page no. 7)				
	Item No.40				
40	Providing, erecting electric Valve actuators with	50		No	

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **500 mm dia**		124,987.00		6,249,350.00
	Basic Rate = Rs. 124987 /-				
	124987+0=124987				
	(MJP E/M SSR 2022-23 I.No. VA 1-13, Page no. 7)				
	Item No.41				
41	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **450 mm dia**	30	114,876.00	No	3,446,280.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Basic Rate = Rs. 114876 /-				
	114876+0=114876				
	(MJP E/M SSR 2022-23 I.No. VA 1-12, Page no. 7)				
	Item No.42				
42	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **400 mm dia**	51	110,247.00	No	5,622,597.00
	Basic Rate = Rs. 110247 /-				
	110247+0=110247				
	(MJP E/M SSR 2022-23 I.No. VA 1-11, Page no. 7)				
	Item No.43				
43	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and	50	107,496.00	No	5,374,800.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **350 mm dia**				
	Basic Rate = Rs. 107496 /-				
	107496+0=107496				
	(MJP E/M SSR 2022-23 I.No. VA 1-10, Page no. 7)				
	Item No.44				
44	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **300 mm dia**	133	104,745.00	No	13,931,085.00
	Basic Rate = Rs. 104745 /-				
	104745+0=104745				
	(MJP E/M SSR 2022-23 I.No. VA 1-9, Page no. 7)				
	Item No.45				
45	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent	93	98,229.00	No	9,135,297.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **250 mm dia**				
	Basic Rate = Rs. 98229 /-				
	98229+0=98229				
	(MJP E/M SSR 2022-23 I.No. VA 1-8, Page no. 7)				
	Item No.46				
46	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **200 mm dia**	122	92,403.00	No	11,273,166.00
	Basic Rate = Rs. 92403 /-				
	92403+0=92403				
	(MJP E/M SSR 2022-23 I.No. VA 1-7, Page no. 7)				
	Item No.47				
47	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter	94	88,909.00	No	8,357,446.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **150 mm dia**				
	Basic Rate = Rs. 88909 /-				
	88909+0=88909				
	(MJP E/M SSR 2022-23 I.No. VA 1-6 Page no. 7)				
	Item No.48				
48	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **100 mm dia**	37	83,614.00	No	3,093,718.00
	Basic Rate = Rs. 83614 /-				
	83614+0=83614				
	(MJP E/M SSR 2022-23 I.No. VA 1-4 Page no. 7)				
	Item No.49				
49	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special	8	79,907.00	No	639,256.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **80 mm dia**				
	Basic Rate = Rs. 79907 /-				
	79907+0=79907				
	(MJP E/M SSR 2022-23 I.No. VA 1-3 Page no. 7)				
	Item No.50				
50	Providing, erecting electric Valve actuators with proper controller for opening & closing position totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically dis-engage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin. The torque rating of reduction gear box shall be atleast 1.5 times max. torque required for opening and closing of valve with integral starter for ON & OFF operation. Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating For Valve Size. **50 mm dia**	9	78,848.00	No	709,632.00
	Basic Rate = Rs. 78848 /-				
	78848+0=78848				
	(MJP E/M SSR 2022-23, I.No. VA 1-1, Page no. 7)				
	Item No.51				
51	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and	10	108,762.00	No	1,087,620.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **800 mm dia**				
	Basic Rate = Rs. 108762 /-				
	108762+0=108762				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.52				
52	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **700 mm dia**	14	86,427.00	No	1,209,978.00
	Basic Rate = Rs. 86427 /-				
	86427+0=86427				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.53				
53	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **600 mm dia**	81	66,386.00	No	5,377,266.00
	Basic Rate = Rs. 66386 /-				
	66386+0=66386				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.54				
54	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **500 mm dia**	98	54,026.00	No	5,294,548.00
	Basic Rate = Rs. 54026 /-				
	54026+0=54026				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.55				
55	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and	50	44,784.00	No	2,239,200.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **450 mm dia**				
	Basic Rate = Rs. 44784 /-				
	44784+0=44784				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.56				
56	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **400 mm dia**	96	36,921.00	No	3,544,416.00
	Basic Rate = Rs. 36921 /-				
	36921+0=36921				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.57				
57	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **350 mm dia**	90	27,718.00	No	2,494,620.00
	Basic Rate = Rs. 27718 /-				
	27718+0=27718				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.59				
58	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **300 mm dia**	247	20,353.00	No	5,027,191.00
	Basic Rate = Rs. 20353 /-				
	20353+0=20353				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.59				
59	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and	178	16,949.00	No	3,016,922.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **250 mm dia**				
	Basic Rate = Rs. 16949 /-				
	16949+0=16949				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.60				
60	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **200 mm dia**	225	12,290.00	No	2,765,250.00
	Basic Rate = Rs. 12290 /-				
	12290+0=12290				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.61				
61	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **150 mm dia**	184	12,125.00	No	2,231,000.00
	Basic Rate = Rs. 12125 /-				
	12125+0=12125				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.62				
62	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **100 mm dia**	73	8,156.00	No	595,388.00
	Basic Rate = Rs. 8156 /-				
	8156+0=8156				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.63				
63	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and	17	8,156.00	No	138,652.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **80 mm dia**				
	Basic Rate = Rs. 8156 /-				
	8156+0=8156				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.64				
64	Providing, erecting and commissioning M.S.Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc. complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange)should not be less than 75% of dia. **50 mm dia**	6	8,156.00	No	48,936.00
	Basic Rate = Rs. 8156 /-				
	8156+0=8156				
	(MJP E/M SSR 2022-23, I.No. PW 6, Page no. 9)				
	Item No.65				
65	Gas cutting (either square cut or V cut) pipes, plates, etc. of thickness 5 to 10 mm	2738.78	141.75	Rmt	388,222.07
	Basic Rate = Rs. 135 /-				
	135+6.75=141.75				
	(MJP SSR 2021-22, I.No.XVI-12(ii), Page -170) + Add 5% for CA				
	Item No.67 M.S. Pipes and Specials				
66	a) Providing, fabricating, erecting , testing & commissioning of M.S. flanges duly painted etc.complete.	138835.89	95.00	Kg	13,189,409.55
	Basic Rate = Rs. 95 /-				
	95+0=95				
	(MJP SSR 2021-22, I.No.7C, Page -72)				
	Item No.67				
67	Welding in all positions with required number of runs, for M. S. pipes internally and / or externally including gauging wherever necessary, fixing appurtenances and other accessories in connection with pipe laying work as per specification.	12605	1,349.25	Rmt	17,007,296.25
	Basic Rate = Rs. 1285 /-				
	1285+64.25=1349.25				
	(MJP SSR 2021-22, I.No.7Vi , Page -169)+Add 5% for CA				
	Item No.68				
68	) Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below, stacking and spreading as directed, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete	6114	165.00	Cum	1,008,810.00
	Basic Rate = Rs. 150 /-				
	150+15=165				
	(MJP SSR 2021-22, I.No.1, Page -42)+10%				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Excavation in Town				
	Item No.69				
69	Excavation for foundation / pipe trenches by all means in hard murum including removing the excavated material upto a distance of 50 M and lifts as below, stacking and spreading as directed by Engi- neer-incharge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete.	1343	187.00	Cum	251,141.00
	Basic Rate = Rs. 170 /-				
	170+17=187				
	(MJP SSR 2021-22, I.No.2, Page -42)+10% Excavation in Town				
	Item No.70				
70	Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge (including cost of machinery, labour, fuel), etc.complete.	83550	80.85	HP/Hr	6,755,017.50
	Basic Rate = Rs. 77 /-				
	77+3.85=80.85				
	(MJP SSR 2021-22, I.No.14, Page -45)+Add 5% for CA				
	Item No.71				
71	Providing dry trap/granite/quartzite/gneiss, rubble stone soling in 15cm to 20 cm thick layers including hand packing and compacting, royalty charges etc. complete.(Bd-A-11/263)	683	1,233.75	Cum	842,651.25
	Basic Rate = Rs. 1175 /-				
	1175+58.75=1233.75				
	(MJP SSR 2021-22, I.No.18, Page -46)+Add 5% for CA				
	Item No.72				
72	Providing and laying in situ, following grades of C.C. of trap /granite / quartzite / gneiss metal for foundation and bedding including dewatering, formwork, compacting and curing, finishing, etc. complete.	313	5,989.20	Cum	1,874,619.60
	Basic Rate = Rs. 5704 /-				
	5704+285.2=5989.2				
	(MJP Corrigendum No. 9, I.No.1a, Page -4)+Add 5% for CA				
	Item No.73				
73	Providing and laying in situ Cement concrete of trap/granite/ quartzite/ gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stan- chions including normal dewatering, 'plywood form work, bully/ steel propups, compaction, finishing and curing, etc., complete. (By weigh batching and mix design for M-250 and M- 300 only. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad Rajashree etc. cement is permitted) (excluding Manikgad, Rajashree, etc. permitted.) M.S. or Tor reinforcement)	893	8,602.65	Cum	7,682,166.45
	Basic Rate = Rs. 8193 /-				
	8193+409.65=8602.65				
	(MJP Corrigendum No. 9, I.No.2d, Page -4)+Add 5% for CA				
	Item No.74				
74	Providing and casting in situ C. C. of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings	6372	10,680.60	Cum	68,056,783.20

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	and designs or as directed by Engineer-in-charge including normal dewatering, centering, 'plywood formwork, bully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface where- ever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M- 250 and M- 300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor reinforcement)				
	Basic Rate = Rs. 10172 /-				
	10172+508.6=10680.6				
	(MJP Corrigendum No. 9, I.No.5d, Page -5)+Add 5% for CA				
	Item No.75				
75	iv) Providing and casting in situ C. C. of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, 'plywood formwork, bully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface where- ever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M- 250 and M- 300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor reinforcement)	166	102,066.30	Cum	16,943,005.80
	Basic Rate = Rs. 97206 /-				
	97206+4860.3=102066.3				
	(MJP Corrigendum No. 9, I.No.8 b, Page -7)+Add 5% for CA				
	Item No.76				
76	Providing and casting in situ C. C. of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, 'plywood formwork, bully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wher- ever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M- 250 and M- 300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor reinforcement)	13	77,177.10	Cum	1,003,302.30
	Basic Rate = Rs. 73502 /-				
	73502+3675.1=77177.1				
	(MJP SSR 2021-22 Corrigendum No. 5, I.No.1 b, Page -21)+Add 5% for CA				
	Item No.77				
77	Providing and fixing M.S. chequerred plate flooring of following thickness supported on M.S.angles (25 x 25 x 5 mm size) including welding, cutting and fabricating the plate to the required square or	4484	4,331.25	Cum	19,421,325.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	rounding shape, making holes in the plate, including providing and applying 3 coats of anticorrosive paint, etc. complete as directed by Engineer-in-charge.(for Valve Chamber 800 to 50 mm dia) chamber cover with Fram 6 mm thick.				
	Basic Rate = Rs. 4125 /-				
	4125+206.25=4331.25				
	(MJP SSR 2021-22, Item no.6a, Page no.229) + 5% CA				
	Item No.78				
78	Providing crane for handling pipes, valves, meters and carrying jointing of M.S. pipes	3962	1,735.65	Hr	6,876,645.30
	Basic Rate = Rs. 1653 /-				
	1653+82.65=1735.65				
	(MJP SSR 2021-22, I.No12 Page -15)+Add 5% for CA				
	Item No.79				
79	Hiring charges for supplying and maintaining 230/415 V, 50 cycles AC generating set 3 to 10 kVA capacity with necessary fuel, mains, switchgears and accessories complete with continuous running on load/no load as per requirements complete with self certification.	190	5,519.00	Day	1,048,610.00
	Basic Rate = Rs. 5519 /-				
	5519+0=5519				
	(PWD ECSR 2022-23 Item no-14-2-2 ,Page no-235)				
	Item No.80				
80	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **700 mm dia**	6	527,722.00	Nos	3,166,332.00
	Basic Rate = Rs. 527722 /-				
	527722+0=527722				
	(MJP E/M SSR 2022-23, I.No. WM 12 Page no. 43)				
	Item No.81				
81	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **600 mm dia**	39	491,333.00	Nos	19,161,987.00
	Basic Rate = Rs. 491333 /-				
	491333+0=491333				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	(MJP E/M SSR 2022-23, I.No. WM 11 Page no. 43)				
	Item No.82				
82	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **500 mm dia**	47	426,332.00	Nos	20,037,604.00
	Basic Rate = Rs. 426332 /-				
	426332+0=426332				
	(MJP E/M SSR 2022-23, I.No. WM 9Page no. 43)				
	Item No.83				
83	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **450 mm dia**	21	366,347.00	Nos	7,693,287.00
	Basic Rate = Rs. 366347 /-				
	366347+0=366347				
	(MJP E/M SSR 2022-23, I.No. WM 8 Page no. 43)				
	Item No.84				
84	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **400 mm dia**	45	342,030.00	Nos	15,391,350.00
	Basic Rate = Rs. 342030 /-				
	342030+0=342030				
	(MJP E/M SSR 2022-23, I.No. WM 7 Page no. 43)				
	Item No.85				
85	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including	41	301,184.00	Nos	12,348,544.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **350 mm dia**				
	Basic Rate = Rs. 301184 /-				
	301184+0=301184				
	(MJP E/M SSR 2022-23, I.No. WM 6 Page no. 43)				
	Item No.86				
86	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **300 mm dia**	115	217,710.00	Nos	25,036,650.00
	Basic Rate = Rs. 217710 /-				
	217710+0=217710				
	(MJP E/M SSR 2022-23, I.No. WM 5 Page no. 43)				
	Item No.87				
87	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **250 mm dia**	85	189,862.00	Nos	16,138,270.00
	Basic Rate = Rs. 189862 /-				
	189862+0=189862				
	(MJP E/M SSR 2022-23, I.No. WM 4 Page no. 43)				
	Item No.88				
88	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be	110	171,824.00	Nos	18,900,640.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	required at site & based on technical specifications **200 mm dia**				
	Basic Rate = Rs. 171824 /-				
	171824+0=171824				
	(MJP E/M SSR 2022-23, I.No. WM 3 Page no. 43)				
	Item No.89				
89	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **150 mm dia**	90	145,069.00	Nos	13,056,210.00
	Basic Rate = Rs. 145069 /-				
	145069+0=145069				
	(MJP E/M SSR 2022-23, I.No. WM 2 Page no. 43)				
	Item No.90				
90	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **100 mm dia**	36	134,620.00	Nos	4,846,320.00
	Basic Rate = Rs. 134620 /-				
	134620+0=134620				
	(MJP E/M SSR 2022-23, I.No. WM 1 Page no. 43)				
	Item No.91				
91	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **80 mm dia**	9	134,620.00	Nos	1,211,580.00
	Basic Rate = Rs. 134620 /-				
	134620+0=134620				
	(MJP E/M SSR 2022-23, I.No. WM 1 Page no. 43)				
	Item No.92				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
92	Supply, install and commission Electromagnetic Flow Meter (EMF) As Per ISO 4064, for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 100 mm-1000mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, leveling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications **50 mm dia**	9	134,620.00	Nos	1,211,580.00
	Basic Rate = Rs. 134620 /-				
	134620+0=134620				
	(MJP E/M SSR 2022-23, I.No. WM 1 Page no. 43)				
	Item No.93				
93	Fixing flow meter transmitter to internal walls of buildings in a suitably designed panel cabinet with proper locking arrangement with glass window on front door for seeing the readings of flow transmitter and data logger without opening of the panel cabinet. It should house complete ancillaries and including the provision for connection of electrical power supply from nearby apparatus. The panel cabinet shall be prewired and with suitable gland entries.	81	6,603.00	Each	534,843.00
	Basic Rate = Rs. 6603 /-				
	6603+0=6603				
	(MJP E/M SSR 2022-23, I.No. WM 3B Page no. 40)				
	Item No.94				
94	Designing, Supplying, Installing, commissioning & testing of pressure transmitter CE markd with following technical parameters at Raw Water Pump House and Interfacing with PLC panel including Mounting arrangement. Output 4-20 mA Power supply - 24V DC / 230 VAC Display - 4" LED Accuracy - +/- 0.1 % of full scale or better Enclosure- IP 68	291	36,634.00	Each	10,660,494.00
	Basic Rate = Rs. 36634 /-				
	36634+0=36634				
	(MJP E/M SSR 2022-23, I. No. SA 5.2, Page 56)				
	Item No.95				
95	Design, Supply, Installation, commissioning, testing of Turbidity Analyser as per ISO 7027 scattering 2.3.1 light method at A.F. and Interfacing with PLC panel. Turbidity analyser shall comprises of 3 components Le. sensors, signal distributor and transmitter with indicator. with 2 Outputs, 1 to PLC & another to Local Display with mounting arrangement. Overall Range: 0 - 100 NTU Accuracy: +/- 0.02 NTU Supply Voltage: 230 V ac Output: 4-20 rnA	11	203,744.00	Each	2,241,184.00
	Basic Rate = Rs. 203744 /-				
	203744+0=203744				
	(MJP E/M SSR 2022-23, I. No. SA 5.4 Page 76)				
	Item No.96				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
96	Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 800 mm X 700 mm X 800mm (LBH) , fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens gray color. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipments & instruments at GSR/ESR Tank.PLC shall have Ethernet port & protocal for Modbus TCP communication with following IO DI –16 num DO – 16 num AI –2 num AO – 1 num. The panel shall include all the accessories (not limited to following) to achieve purpose of smooth & trouble free operation at GSR/ESR functionality. Digital Flow Indicator-1 num Digital TDS Indicator – 1 num Led Level Indicator – 5 levels MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 4 num Selector Switch - 1 num Control Relay –2 num Electronic Hooter – 1 num Control Transformer – 1 nummergency PB – 1 num Panel Cooling Fan – 1 num Panel Light with Door Switch – 1 num Wiring + TB etc – 1 lot Hardware – 1 lot	692	93,072.00	Each	64,405,824.00
	Including pipe type earthing with 40mm. dia. G.l. pipe or 20 mm dia. G.l. Rod complete with all materials , GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws & SMPS input voltage 230 V A.C. & output voltage 24 V DC, charging current 10A suitable to charge, 16 A SP MCB for supply & surge arrestor/ surge protection device at the sub main distribution board after the incoming breaker of type 2 tested for Imax 40 kA for single phase and neutral as per specification no. CP-SPD				
	Basic Rate = Rs. 93072 /-				
	93072+0=93072				
	[As per Market rate analysis]				
	Item No.97				
97	Installing commissioning & testing of GSM/GPRS Sim card Charges for one Years Including for ESR Remote Location	680	7,200.00	Each	4,896,000.00
	Basic Rate = Rs. 7200 /-				
	7200+0=7200				
	[As per Market rate analysis]				
	Item No.98				
98	Supply, install and commission of Insertion type Electromagnetic Flow Sensor with Water Master Transmitter Meter (EMF) Enclosure IP 68 , for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 600 mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, levelling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications	9	720,849.00	Each	6,487,641.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	i) universal switch mode power supply (options are available for AC and DC supplies) ii) HART protocol over 4 to 20 mA and infrared link iii) read-only switch and ultra-secure service password for total security **800 mm Dia**				
	Basic Rate = Rs. 720849 /-				
	720849+0=720849				
	(As per Market Quotation Rate Analysis)				
	Item No.99				
99	Supply, install and commission of Insertion type Electromagnetic Flow Sensor with Water Master Transmitter Meter (EMF) Enclosure IP 68 , for Raw/Pure water with accuracy +/-0.5% of measured value & protection as per given specifications for size 600 mm including sensor, transmitter surge arrestor, cable GI duct if suitable size for 25 mtrs built in GSM (with Simcard and its charges,valid for 36 months) including the pipe cutting, levelling and installation of flow meter in the pipelines with necessary tool tackles, cranes including 36 months guarantee etc complete, as may be required at site & based on technical specifications i) universal switch mode power supply (options are available for AC and DC supplies) ii) HART protocol over 4 to 20 mA and infrared link iii) read-only switch and ultra-secure service password for total security **700 mm Dia**	1	720,849.00	Each	720,849.00
	Basic Rate = Rs. 720849 /-				
	720849+0=720849				
	(As per Market Quotation Rate Analysis)				
	Item No.100				
100	Designing, Supplying, Installing, commissioning & testing of Ultrasonic level transmitter CE marked with following technical parameters at pure Water Pump House and Interfacing with PLC panel including Mounting accessories. Range- 0 - 5 mtrs Output 4-20 mA Power supply - 24V DC ext. Display - 4" LED Accuracy - +/- 0.25% of Full Scale or better Temp.- With Inbuilt temp compensation Enclosure- IP 68 weatherproof Mounting - Top/above FSL of Tank	104.00	52,331.00	Nos	5,442,424.00
	Basic Rate = Rs. 52331 /-				
	52331+0=52331				
	(MJP E/M SSR 2022-23, I. No. SA 2.1, Page 52)				
	Item No.101				
101	Designing, Supplying, Installing, commissioning & testing of Ultrasonic level transmitter CE marked with following technical parameters at pure Water Pump House and Interfacing with PLC panel including Mounting accessories. Range- 0 - 5 mtrs Output 4-20 mA Power supply - 24V DC ext. Display - 4" LED Accuracy - +/- 0.25% of Full Scale or better Temp.- With Inbuilt temp compensation	14.00	54,664.00	Nos	765,296.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Enclosure- IP 68 weatherproof Mounting - Top/above FSL of Tank				
	Basic Rate = Rs. 54664 /-				
	54664+0=54664				
	(MJP E/M SSR 2022-23, I. No. SA 2.1, Page 52)				
	Item No.102				
102	Designing, Supplying, Installing, commissioning & testing of Power Analyser interfacing to PLC Panel with Modbus Communication Port, as per IEC 62053 and in the prescribed format including Mounting arrangement.	50.00	33,133.00	Nos	1,656,650.00
	Basic Rate = Rs. 33133 /-				
	33133+0=33133				
	(MJP E/M SSR 2022-23, I. No. SA 5.6, Page 58)				
	Item No.103				
103	Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 1200 mm X 700 mm X 1500mm (LBH), fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens gray colour. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipment's & instruments at WPS Plant	63.00	337,500.00	Nos	21,262,500.00
	PLC shall have Ethernet port & protocol for Modbus TCP communication with following IO DI –72 num DO – 40 num AI –24 num AO – 16 num 10 inch colour TFT HMI complete with programming shall be provided to interact with PLC The panel shall include all the accessories (not limited to following) to achieve purpose of smooth & trouble free operation of WPS MCB 10A DP – 1 num MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 30 num Selector Switch -15 num Control Contactor – 15 num Annunciator with 12 Windows NO to NC Type Electronic Hooter – 1 num Control Transformer – 1 num Emergency PB – 1 num Panel Cooling Fan – 1 num Panel Light with Door Switch – 1 num Control Indication Lamp – 15 num Wiring + TB etc – 1 lot Hardware – 1 lot				
	Basic Rate = Rs. 337500 /-				
	337500+0=337500				
	MJP E/M SSR2022-23 Item no -2.6.2 Page no-54)				
	Item No.104				
104	Design, manufacture, supply, installation, testing and commissioning of SCADA System for WPS Plant, & pump house. Windows based PC with latest configuration & OS complete with necessary office & antivirus software's. PC configuration shall not be less	63.00	378,000.00	Nos	23,814,000.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	than Intel i5 10th Gen CPU, 16 GB Ram, 128 GB SDD, 500 GB HDD, DVD RW, Rs232 & Rs485 port, 2 RJ45 ports, Keyboard, Optical Mouse, 32 inch colour TFT Monitor, Latest Windows Pro OS, Microsoft Office & Antivirus & Internet Security software for 3 years license. Design, manufacture, supply, installation, testing and commissioning of SCADA System for WTP Plant, Sand Filter beds & pump house. SCADA Software of reputed company with developer & runtime license with minimum 512 number of Tags with following features & functions.				
	1. Supervise real-time data in the form of graphical presentation. 2. Control WTP processes locally or through Remote locations. 3. Dynamic process Graphic, It should resemble the process mimic. SCADA should have good library of symbols so that develop the mimic as per required. When operator sees the screen he should know what's going in plant. 4. Alarm summery & Alarm history, SCADA system must be able to detect, display, and log alarms and events. When there are problems the SCADA system must notify the operators to take corrective action. 5. Acquire real-time data as well as logs data with Real time trend & Historical time trend. 6. Web Connectivity, Real-time displays can be accessed on remotely attached PCs and notebooks using internet. SCADA Programming shall be done so as operator can visualize and control complete WTP operation from operator desk. All important alarms & events shall be logged. All the data from field instruments & equipment's shall be logged. There shall be provision to take reports in required formats of real time & historical data, events & alarms. There shall be provision of broadcasting messages, emails of reporting information. There shall be provision of access security. An Industrial grade Din rail mounting Ethernet switch with 5 ports shall be provided. An Industrial grade modem with 4G/5G GSM connectivity shall be provided.				
	Basic Rate = Rs. 378000 /-				
	378000+0=378000				
	MJP E/M SSR2022-23 Item no -6.2 New Item Page no-59)				
	Item No.105				
105	Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 800 mm X 700 mm X 800mm (LBH) , fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens gray colour. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipment's & instruments at GSR/ESR Tank.PLC shall have Ethernet port & protocol for Modbus TCP communication with following IO DI –16 num DO – 16 num AI –2 num AO – 1 num. The panel shall include all the accessories (not limited to following) to achieve purpose of smooth & trouble free operation at GSR/ESR functionality. Digital Flow Indicator-1	71.00	83,700.00	Nos	5,942,700.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	num Digital TDS Indicator – 1 num Led Level Indicator – 5 levels MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 4 num Selector Switch - 1 num Control Relay –2 num Electronic Hooter – 1 num Control Transformer – 1 nummergency PB – 1 num Panel Cooling Fan – 1 num Panel Light with Door Switch – 1 num Wiring + TB etc – 1 lot Hardware – 1 lot				
	Basic Rate = Rs. 83700 /-				
	83700+0=83700				
	(MJP E/M SSR 2022-23, Item no. 7.2.1, Page no. 61)				
	ACCESSORIES FOR SCADA AUTOMATION				
	Item No.106				
106	Designing, Supplying, Installing, commissioning & testing with Terminating & Interfacing of 2 C x 1.5 sq.mm as per IS 694 twisted shielded copper armoured conductor on wall in GI tray or in ground suitable for supplied D. C. Voltage	40360.00	110.00	Mtr	4,439,600.00
	Basic Rate = Rs. 110 /-				
	110+0=110				
	(MJP E/M SSR 2022-23, Item no. CB 7-1-1, Page no. 24)				
	Item No.107				
107	Designing, Supplying, Installing, commissioning & testing with Terminating & Interfacing of 1.0 sq.mm as per IS 694 copper shielded, twisted,multi stranded armoured cable on wall in GI tray or on ground. **2 Pair x 1 Sqmm**	16500.00	199.00	Mtr	3,283,500.00
	Basic Rate = Rs. 199 /-				
	199+0=199				
	(MJP E/M SSR 2022-23, I. No. SA 1.8.1, Page 51)				
	Item No.108				
108	Designing, Supplying, Installing, commissioning & testing with Terminating & Interfacing of 1.0 sq.mm as per IS 694 copper shielded, twisted,multi stranded armoured cable on wall in GI tray or on ground. **3 Pair x 1 Sqmm**	16500.00	253.00	Mtr	4,174,500.00
	Basic Rate = Rs. 253 /-				
	253+0=253				
	(MJP E/M SSR 2022-23, I. No. SA 1.8.2, Page 52)				
	Item No.109				
109	Designing, Supplying, Installing, commissioning & testing with Terminating & Interfacing of 1.0 sq.mm as per IS 694 copper shielded, twisted,multi stranded armoured cable on wall in GI tray or on ground. **4.5 Pair x 1 Sqmm**	16500.00	372.00	Mtr	6,138,000.00
	Basic Rate = Rs. 372 /-				
	372+0=372				
	(MJP E/M SSR 2022-23, I. No. SA 1.8.3, Page 52.)				
	Item No.110				
110	Designing, Supplying, Installing, commissioning & testing with Terminating & Interfacing of 1.0 sq.mm as per IS 694 copper shielded, twisted,multi stranded armoured cable on wall in GI tray or on ground. **8 Pair x 1 Sqmm**	16500.00	665.00	Mtr	10,972,500.00
	Basic Rate = Rs. 665 /-				
	665+0=665				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	(MJP E/M SSR 2022-23, I. No. SA 1.8.4, Page 52)				
	Item No.111				
111	Copper conductor PVC insulated, armoured Supplying and erecting armoured control cable with lSI mark stranded / solid copper conductor 1.1 kV grade complete erected on wall / panel or in provided trench in an approved manner.**14 Pair x 1.5 Sqmm**	18651.00	489.00	Mtr	9,120,339.00
	Basic Rate = Rs. 489 /-				
	489+0=489				
	(MJP E/M SSR 2022-23, I. No. CB 7-1-11, Page 24)				
	Item No.112				
112	Copper conductor PVC insulated, armoured control cable Supplying and erecting armoured control cable with lSI mark stranded / solid copper conductor 1.1 kV grade complete erected on wall / panel or in provided trench in an approved manner **10 Pair x 1.5 Sqmm**	15980.00	325.00	Mtr	5,193,500.00
	Basic Rate = Rs. 325 /-				
	325+0=325				
	(MJP E/M SSR 2022-23, I. No. CB 7-1-9, Page 24)				
	Item No.113				
113	Copper conductor PVC insulated, armoured control cable Supplying and erecting armoured control cable with lSI mark stranded / solid copper conductor 1.1 kV grade complete erected on wall / panel or in provided trench in an approved manner **12 Pair x 1.5 Sqmm**	15980.00	430.00	Mtr	6,871,400.00
	Basic Rate = Rs. 430 /-				
	430+0=430				
	(MJP E/M SSR 2022-23, I. No. CB 7-1-10, Page 24)				
	Item No.114				
114	Supplying and installing cat-6 cable with rodent proof and anti termite jacket suitable for networking as per specification No. WG-COC/NC	600.00	126.00	Mtr	75,600.00
	Basic Rate = Rs. 126 /-				
	126+0=126				
	(PWD ECSR 2022-23, Item No.1-10-6, Page no - 18)				
	Item No.115				
115	Supplying & erecting on line UPS pure sine wave of 2 kVA capacity complete with standard features, along with necessary SMF batteries for 30 mins battery backup, as per specification no. AP-UPS	63.00	48,983.00	Nos	3,085,929.00
	Basic Rate = Rs. 48983 /-				
	48983+0=48983				
	(PWD ECSR 2022-23, Item No. 3-7-2, Page no - 52)				
	Item No.116				
116	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.	14713.00	614.00	Mtr	9,033,782.00
	Basic Rate = Rs. 614 /-				
	614+0=614				
	(PWD ECSR 2022-23, Item No. 7-11-6, Page no-				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	144)				
	Item No.117				
117	Providing & erecting Hot dipped galvanized cover suitable for perforated type cable tray manufactured from 18 swg (1.2 mm thick) GI sheet of 150 mm width & 20 mm height complete with necessary hardware in approved manner.	15966.00	369.00	Mtr	5,891,454.00
	Basic Rate = Rs. 369 /-				
	369+0=369				
	(PWD ECSR 2022-23, Item No. 7-11-11, Page no -144)				
	Item No.118				
118	Providing making separate Earthing arrangement for SCADA & Automation system with copper Earth Pit & Copper Earth Plate etc. complete Providing earthing with copper earth plate size 60 x 60 x 0.315 cm with funnel with a wire mesh for watering and brick masonry block C.l. cover with minimum 25 kg Carbon based environment friendly back fill Ground Enhancing compound complete with all materials, testing & recording the results as per specification no ESE -LA	500.00	15,734.00	Nos	7,867,000.00
	Basic Rate = Rs. 15734 /-				
	15734+0=15734				
	(PWD ECSR 2022-23, Item No. 9-1-6, Page no -160)				
	Item No.119				
119	Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq.mm complete as per specification no. CW-EXN-CTR	13452.00	161.00	Mtr	2,165,772.00
	Basic Rate = Rs. 161 /-				
	161+0=161				
	(PWD ECSR 2022-23, Item No. 16-1-1, Page no -239)				
	Item No.120				
120	Supplying and erecting DOL starter Reverse & Forward to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element reverse & forwarding motor with necessary material and connected to supply, etc. complete. Starter with original sheet steel enclosure	268.00	101,071.00	Job	27,087,028.00
	Basic Rate = Rs. 101071 /-				
	101071+0=101071				
	(As per rate Analysis)				
	Item No.121				
121	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 10 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per pacification no. CB-LT/AL	1500	181.00	Mtr	271,500.00
	Basic Rate = Rs. 181 /-				
	181+0=181				
	(PWD ECSR 2022-23, Item No. 7-1-28, Page no -127)				
	Item No.122				
122	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 16 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in	10000.00	211.00	Mtr	2,110,000.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	provided trench/ pipe as per specification no. CB-LT/A				
	Basic Rate = Rs. 211 /-				
	211+0=211				
	(PWD ECSR 2022-23, Item No. 7-1-29, Page no -127)				
	Item No.123				
123	Providing structural steel work in rolled sections like joists, channels, angles, tees, etc for fabrication work as per detailed designs and drawings including fixing in position without connecting plates, braces, etc. and one coat of anticorrosive paint and over it two coats of oil painting, of approved quality and shade, etc. complete. (Bd-C-2/275)	13.00	74,618.00	MT	970,034.00
	Basic Rate = Rs. 74618 /-				
	74618+0=74618				
	(MJP SSR 2021-22, Item no.5, Page no. 48)				
	Item No.124				
124	Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 1200 mm X 700 mm X 1500mm (LBH), fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens gray color. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipments & instruments at WPS & CMS PlantPLC shall have Ethernet port & protocal for Modbus TCP communication with following IO DI –72 num DO – 40 num AI –12 num AO – 4 num 10 inch color TFT HMI complete with programming shall be provided to interact with PLC The panel shall include all the accessories (not limited to following) to achieve purpose of smooth & trouble free operation of WPS& CMS System	8	343,400.00	Each	2,747,200.00
	MCB 16A DP – 3 num MCB 10A DP – 1 num MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 30 num Selector Switch -16 num Control Contactor – 16 num Annunciator with 12 Windows NO to NC TypeMCB 16A DP – 3 num MCB 10A DP – 1 num MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 30 num Selector Switch -16 num Control Contactor – 16 num Annunciator with 12 Windows NO to NC Type				
	Basic Rate = Rs. 343400 /-				
	343400+0=343400				
	MJP E/M SSR 2022-23 item no SA 6.1Page no-59)				
	Item No.125				
125	Supply, Installation, Testing sutaible for A3/A4	8		Each	

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Colour Laser printer size as per detaild Sepecification		156,500.00		1,252,000.00
	Basic Rate = Rs. 156500 /-				
	156500+0=156500				
	As per Market Rate Analysis				
	Item No.126				
126	Supplying & erecting on line UPS pure sine wave of 3 kVA capacity complete with standard features, along with necessary SMF batteries for 30 mins battery backup, as per specification no. AP-UPS	8	49,181.00	Each	393,448.00
	Basic Rate = Rs. 49181 /-				
	49181+0=49181				
	As per Market Rate Analysis				
	Item No.127				
127	Supplying, installing, testing & commissioning split type variable speed inverter technology with minimum 3 to 1 convertible mode for compressor, room air conditioning unit 1.3TR to 1.6TR capacity having ISEER minimum 5.00 suitable to operate on 250V, 50 Hz, A.C. supply having 1 no of air handling unit hi-wall/floor mounting type complete with refrigerant R32 having copper condenser, minimum 2.5PM filter, self diagnosis feature, stabilizer free operation & temperature display on indoor unit, noise level maximum 50dBA at position as .per specification no. APAC/ WAC	8	55,578.00	Each	444,624.00
	Basic Rate = Rs. 55578 /-				
	55578+0=55578				
	(PWD ECSR 2022-23, Item No. 3-2-11, Page no-43)				
	Item No.128				
128	Installing commissioning & testing of GSM/GPRS Sim card Charges for six Years	8	7,200.00	Each	57,600.00
	Basic Rate = Rs. 7200 /-				
	7200+0=7200				
	[As per Market rate analysis]				
	Item No.129				
129	Installing commissioning & testing of GSM/GPRS Sim card Charges for six Years for (190 nos for SIWA leak detection for RTU Panel & 2 nos for Central Server room office)	152	7,200.00	Each	1,094,400.00
	Basic Rate = Rs. 7200 /-				
	7200+0=7200				
	[As per Market rate analysis]				
	Item No.130				
130	Supply and Installation of 70" Full HD Laser based DLP Video wall in 2x2 configuration with Automatic Data Processing Machine -Icon Pro Controller having 2 DVI/HDMI inputs, Dual LAN Ports and Connecting cables 10m cable to connect controller to Video Wall and Input Source with 5 years warranty *	6	1,050,000.00	Each	6,300,000.00
	Basic Rate = Rs. 1050000 /-				
	1050000+0=1050000				
	[As per Market rate analysis]				
	Item No.131				
131	Supply, Installation, Commissioning, Testing,Terminating & Interfacing Integrated water command & Control centre Plaform Software which will include facilities of SCADA,historian,OPC server,Reporting server	1	61,093,750.00	Each	61,093,750.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
	software facilities with all integarted facilities of water suplly system activities etc complete.				
	Basic Rate = Rs. 61093750 /-				
	61093750+0=61093750				
	As per Market Rate Analysis				
	Item No.132				
132	Creating GIS image of transmission main sysstem for all 8 wards network for haydrawlic modeling and uploding on SCADA software for monitorig and compating with leak detection software as well as integarated water management software etc complte .	1	2,000,000.0 0	Each	2,000,000.00
	Basic Rate = Rs. 2000000 /-				
	2000000+0=2000000				
	As per Market Rate Analysis				
	Item No.133				
133	Providing, supplying installation testing and commissioning of flow meters with grounding ring, counter flanges, gasket, nut nolts, gland, GPRS module and battery, Sim card installation and charges for 6 years, Flow transmitters, items to include the Deployment of SIWA Leak Plus advanced version (cloud based) software with two years fee for cloud maintenance and license with Design, engineering, supply of SIWA Leak Detection system for transmission main pipeline (57 Km) consisting of 190 nos RTU Panels, 190 nos Pressure Transmitters (0-10 bar) and commissioning for 120 Mandays	1	77,000,000. 00	Each	77,000,000.00
	Basic Rate = Rs. 77000000 /-				
	77000000+0=77000000				
	As per Market Rate Analysis				
	Item No.134				
134	Supply, Installation, Testing sutaible for A3/A4 Colour Laser printer size as per detail Sepecification	1	156,500.00	Each	156,500.00
	Basic Rate = Rs. 156500 /-				
	156500+0=156500				
	As per Market Rate Analysis				
	Item No.135				
135	Supplying & erecting on line UPS pure sine wave of 10 kVA capacity complete with standard features, along with necessary SMF batteries for 30 min battery backup, as per specification no. AP-UPS	2	210,428.00	Each	420,856.00
	Basic Rate = Rs. 210428 /-				
	210428+0=210428				
	As per Market Rate Analysis				
	Item No.136				
136	Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 800 mm X 700 mm X 800mm (LBH) , fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens gray color. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipments & instruments at GSR/ESR Tank.PLC shall have Ethernet port & protocal for Modbus TCP communication with following IO DI –16 num DO – 16 num AI –2 num AO – 1 num. The panel shall include all the accessories (not limited to following) to achieve	1	83,700.00	Each	83,700.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	purpose of smooth & trouble free operation at GSR/ESR functionality. Digital Flow Indicator-1 num Digital TDS Indicator – 1 num Led Level Indicator – 5 levels MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 4 num Selector Switch - 1 num Control Relay –2 num Electronic Hooter – 1 num Control Transformer – 1 nummergency PB – 1 num Panel Cooling Fan – 1 num Panel Light with Door Switch – 1 num Wiring + TB etc – 1 lot Hardware – 1 lot				
	Basic Rate = Rs. 83700 /-				
	83700+0=83700				
	(MJP E/M SSR 2022-23, Item no. SA 7.2.1, Page no. 61)				
	Item No.137				
137	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 25 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	50282.00	242.00	Mtr	12,168,244.00
	Basic Rate = Rs. 242 /-				
	242+0=242				
	(PWD ESSR 2022-23, I. No. 7-1-15 Page 126)				
	Item No.138				
138	Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, onveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material 63 mm	29165.00	81.00	Mtr	2,362,365.00
	Basic Rate = Rs. 81 /-				
	81+0=81				
	(MJP Corrigendum No 10 2021-22, I. No. PVC Pipe 1-a Page 1)				
	Item No.139				
139	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 12 core 2.5 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	9745.00	463.00	Mtr	4,511,935.00
	Basic Rate = Rs. 463 /-				
	463+0=463				
	MJP E/M SSR 2022-23 item no CB 8-2-10 Page no-24)				
	Item No.140				
140	Providing ISI mark G.I. pipe of following class and dia. excluding GST levied by GOI & GOM in all respect, inspection charges, transportation to stores, etc. complete as per IS-1239/2004. Note : One coupler shall be provided with each full length of pipe cost of which is included in rates below.50 mm	46770.00	348.00	Mtr	16,275,960.00
	Basic Rate = Rs. 348 /-				
	348+0=348				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	(MJP Corrigendum No 11 2021-22, I. No. 1-a Page 2)				
	Item No.141				
141	Fixing Energy Meter box to internal walls /external wall /open ground of buildings in a suitably designed panel cabinet with proper locking arrangement with glass window on front door for seeing the readings of energy consumption without opening of the panel cabinet. It should house complete ancillaries and including the provision for connection of electrical power supply from nearby apparatus. The panel cabinet shall be prewired and with suitable gland entries	497.00	6,603.00	EACH	3,281,691.00
	Basic Rate = Rs. 6603 /-				
	6603+0=6603				
	(MJP E/M SSR 2022-23, Item no. WM3B Page no. 40)				
	Item No.142				
142	Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5 , 3x240V,50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer erected on provided M.S. box and connected to CTs	497.00	10,731.00	EACH	5,333,307.00
	Basic Rate = Rs. 10731 /-				
	10731+0=10731				
	(PWD ECSR 2022-23, I. No. 6-3-5 Page 110)				
	Item No.143				
143	e) Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials testing and recording the results as per specification no. EA-EP	212	1,500.00	EACH	318,000.00
	Basic Rate = Rs. 1500 /-				
	1500+0=1500				
	(PWD ESSR 2022-23, I. No. 9-1-4 Page 160)				
	Item No.159				
144	f) Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR	38473.00	199.00	Mtr	7,656,127.00
	Basic Rate = Rs. 199 /-				
	199+0=199				
	(PWD ESSR 2022-23, I. No. 16-1-2 Page 239)				
	Item No.145				
145	Supplying and erecting DOL starter Reverse & Forward to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element reverse & forwarding motor with necessary material and connected to supply, etc complete. Starter with original sheet steel enclosure	326.00	23,867.00	Job	7,780,642.00
	Basic Rate = Rs. 23867 /-				
	23867+0=23867				
	As per DSR Rate Anlaysis				
	Item No.146				
146	Dismantling and removing existing old valves etc complete as per detailed specifications. The job	4.00	5,798.94	No	23,195.76

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	consists removing of following valves ..Butterfly Valve **800 mm dia**				
	Basic Rate = Rs. 5798.94 /-				
	5798.94+0=5798.94				
	[As per DSR rate analysis]				
	Item No.147				
147	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **700 mm dia**	2	4,419.24	No	8,838.48
	Basic Rate = Rs. 4419.24 /-				
	4419.24+0=4419.24				
	[As per DSR rate analysis]				
	Item No.148				
148	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **600 mm dia**	4	4,098.78	No	16,395.12
	Basic Rate = Rs. 4098.78 /-				
	4098.78+0=4098.78				
	[As per DSR rate analysis]				
	Item No.149				
149	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **500 mm dia**	5	3,861.48	No	19,307.40
	Basic Rate = Rs. 3861.48 /-				
	3861.48+0=3861.48				
	[As per DSR rate analysis]				
	Item No.150				
150	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **450 mm dia**	3	3,729.18	No	11,187.54
	Basic Rate = Rs. 3729.18 /-				
	3729.18+0=3729.18				
	[As per DSR rate analysis]				
	Item No.151				
151	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **400 mm dia**	5	3,134.04	No	15,670.20
	Basic Rate = Rs. 3134.04 /-				
	3134.04+0=3134.04				
	[As per DSR rate analysis]				
	Item No.152				
152	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **350 mm dia**	5	2,597.70	No	12,988.50
	Basic Rate = Rs. 2597.7 /-				
	2597.7+0=2597.7				
	[As per DSR rate analysis]				
	Item No.153				
153	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **300 mm dia**	7	2,107.98	No	14,755.86
	Basic Rate = Rs. 2107.98 /-				
	2107.98+0=2107.98				
	[As per DSR rate analysis]				
	Item No.154				
154	Dismantling and removing existing old valves etc	5		No	

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **250 mm dia**		2,032.38		10,161.90
	Basic Rate = Rs. 2032.38 /-				
	2032.38+0=2032.38				
	[As per DSR rate analysis]				
	Item No.155				
155	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves ..Butterfly Valve **200 mm dia**	2	1,559.88	No	3,119.76
	Basic Rate = Rs. 1559.88 /-				
	1559.88+0=1559.88				
	[As per DSR rate analysis]				
	Item No.156				
156	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **800 mm dia**	6.00	5,798.94	No	34,793.64
	Basic Rate = Rs. 5798.94 /-				
	5798.94+0=5798.94				
	[As per DSR rate analysis]				
	Item No.157				
157	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **700 mm dia**	2.00	4,419.24	No	8,838.48
	Basic Rate = Rs. 4419.24 /-				
	4419.24+0=4419.24				
	[As per DSR rate analysis]				
	Item No.158				
158	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **700 mm dia**	4	4,431.84	No	17,727.36
	Basic Rate = Rs. 4431.84 /-				
	4431.84+0=4431.84				
	[As per DSR rate analysis]				
	Item No.159				
159	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **600 mm dia**	38.00	4,098.78	No	155,753.64
	Basic Rate = Rs. 4098.78 /-				
	4098.78+0=4098.78				
	[As per DSR rate analysis]				
	Item No.160				
160	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **500 mm dia**	45.00	3,861.48	No	173,766.60
	Basic Rate = Rs. 3861.48 /-				
	3861.48+0=3861.48				
	[As per DSR rate analysis]				
	Item No.161				
161	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **450 mm dia**	27.00	3,729.18	No	100,687.86
	Basic Rate = Rs. 3729.18 /-				
	3729.18+0=3729.18				
	[As per DSR rate analysis]				
	Item No.162				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATE D RATE	UNIT S	AMOUNT
162	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **400 mm dia**	46.00	3,134.04	No	144,165.84
	Basic Rate = Rs. 3134.04 /-				
	3134.04+0=3134.04				
	[As per DSR rate analysis]				
	Item No.163				
163	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **350 mm dia**	44.00	2,597.70	No	114,298.80
	Basic Rate = Rs. 2597.7 /-				
	2597.7+0=2597.7				
	[As per DSR rate analysis]				
	Item No.164				
164	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **300 mm dia**	126.00	2,107.98	No	265,605.48
	Basic Rate = Rs. 2107.98 /-				
	2107.98+0=2107.98				
	[As per DSR rate analysis]				
	Item No.165				
165	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **250 mm dia**	88.00	2,032.38	No	178,849.44
	Basic Rate = Rs. 2032.38 /-				
	2032.38+0=2032.38				
	[As per DSR rate analysis]				
	Item No.166				
166	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **200 mm dia**	120.00	1,559.88	No	187,185.60
	Basic Rate = Rs. 1559.88 /-				
	1559.88+0=1559.88				
	[As per DSR rate analysis]				
	Item No.167				
167	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **150 mm dia**	94.00	1,499.40	No	140,943.60
	Basic Rate = Rs. 1499.4 /-				
	1499.4+0=1499.4				
	[As per DSR rate analysis]				
	Item No.168				
168	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **100 mm dia**	37.00	954.24	No	35,306.88
	Basic Rate = Rs. 954.24 /-				
	954.24+0=954.24				
	[As per DSR rate analysis]				
	Item No.169				
169	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **80 mm dia**	8.00	729.96	No	5,839.68
	Basic Rate = Rs. 729.96 /-				
	729.96+0=729.96				
	[As per DSR rate analysis]				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	Item No.170				
170	Dismantling and removing existing old valves etc complete as per detailed specifications. The job consists removing of following valves .. Sluice Valve **50 mm dia**	9.00	349.86	No	3,148.74
	Basic Rate = Rs. 349.86 /-				
	349.86+0=349.86				
	[As per DSR rate analysis]				
	Item No.171				
171	Credit for dismantled materials such as Valves . Dismantled pipes along with transportation from site to client godown with necessary loading, unloading and required labour etc. complete Butterfly Valve & Sluice Valve	272133	23.00	Kg	-6259059.00
	Basic Rate = Rs. 23 /-				
	23+0=23				
	(PWD ECSR 2022-23, I.No. 19-1-4, Page no-285)				
	Item No.172				
172	h) Electrical Panel with Electrical accessories such as required MCB-2 no's ,conduites,wiring ,cable up to actuator ,fuse etc complete .	416	2,500.00	Each	1040000.00
	Item No.173				
173	Videowall Controller and Management Software (Perpetual Licenses) with 5 years of support (including patch upgrade, update, bug fixing etc.) as per specification attached	1	550,000.00	No	550,000.00
	Item No.174				
174	GPRS gateway for aggregation of field data at Command Control Centre	2	500,000.00	Nos.	1,000,000.00
	Item No.175				
175	Core Routers including SFP modules along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	2	2,900,000.00	Nos.	5,800,000.00
	Item No.176				
176	Core Switches including SFP modules along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	2	4,400,000.00	Nos.	8,800,000.00
	Item No.177				
177	PoE Switches (24 port) including SFP modules for internal connectivity at Data Centre along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	2	202,500.00	Nos.	405,000.00
	Item No.178				
178	Server Room / ToR Switch including SFP modules along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	1	3,000,000.00	Nos.	3,000,000.00
	Item No.179				
179	Rack Server along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	2	705,882.35	Nos.	1,411,764.71
	Item No.180				
180	Server Operating System (Data Centre Edition Licenses) with 5 years of support (including patch upgrade, update, bug fixing etc.)	1	17,500,000.00	Nos.	17,500,000.00
	Item No.181				

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
181	Storage along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	1	4,032,274.76	TB	4,032,274.76
	Item No.182				
182	42U Rack along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	2	180,000.00	Nos.	360,000.00
	Item No.183				
183	Antivirus Solution for Servers (Perpetual License) with 5 years of support (including patch upgrade, update, bug fixing etc.) as per specification attached	1	4,800,000.00	Nos.	4,800,000.00
	Item No.184				
184	Next Generation Firewall (Perpetual Licenses) with 5 years of support (including patch upgrade, update, bug fixing etc.) as per specification attached	2	3,000,000.00	Nos.	6,000,000.00
	Item No.185				
185	Workstations with 3 monitors along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	6	1,100,000.00	Nos.	6,600,000.00
	Item No.186				
186	Antivirus solution including licenses for workstation (Perpetual License) with 5 years of support (including patch upgrade, update, bug fixing etc.) as per specification attached	6	48,000.00	Nos.	288,000.00
	Item No.187				
187	Multifunction Device (Printer, Scanner, Fax, Copy) along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	6	180,000.00	Nos.	1,080,000.00
	Item No.188				
188	Fire Alarm & Retardant System along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	6	330,000.00	Lump sum	1,980,000.00
	Item No.189				
189	Biometric access control system with facial recognition for all doors including Data Centre with application and necessary licenses along with associated accessories & systems including all cables/wires required for end to end installation as per specification attached	6	140,000.00	Nos.	840,000.00
	Item No.190				
190	Rodent Repellent system and water leakage detection system along with associated accessories for ICCC and DC as per specification attached	6	40,000.00	Lump sum	240,000.00
	Item No.191				
191	Building Management System (Perpetual Licenses) with 5 years of support (including patch upgrade, update, bug fixing etc.) as per specification attached	6	550,000.00	Nos.	3,300,000.00
	Item No.192				
192	Site Preparation Work (including interior civil work, Raised Floor, False Ceiling, Ducting, Access Doors, Painting, Partitioning, network cabling, electrical work, wall partitioning etc.) 1. Control room with furniture (850 sq feet-6 operators control desk, storage etc.)	1	12,000,000.00	Lump sum	12,000,000.00

Sr No	ITEM DESCRIPTION	QTY.	ESIMATED RATE	UNITS	AMOUNT
	2. Server Room (approx. 350 Sq. Feet)				
	Item No.193				
193	Air Conditioning (Precision + standard) as per the site requirements (approx. 1200 sq.ft.) as per specification attached	6	1,360,000.00	Lump sum	8,160,000.00
	Item No.194				
194	Workstation with 1 monitor along with table, chair, UPS (15 min. backup), 55inch display, network switch, network rack etc. along with associated accessories & systems including all cables/wires required for end to end installation (including electrical cabling and interior works) as per specification attached	16	660,000.00	Number	10,560,000.00
	Item No.195				
195	Removing of existing valves & Re-erection of valves	1	265,883.10	Job	265,883.10
	Item No.196				
196	Payment to MSEDCL for Making Availabe power supply for remote Palces of EMF meter	81	40,000.00	EACH	3,240,000.00
	Basic Rate = Rs. 40000 /-				
	40000+0=40000				
	(Lumsump)				
	Item No.197				
197	g) Payment to MSEDCL for Making Available power supply for remote Palces of EMF meter	131	25,000.00	EACH	3,275,000.00
	Basic Rate = Rs. 25000 /-				
	25000+0=25000				
	(Lumsump)				
	Item No.198				
198	g) Payment to MSEDCL for Making Available power supply for remote Palces of EMF meter	285	30,000.00	EACH	8,550,000.00
	Basic Rate = Rs. 30000 /-				
	30000+0=30000				
	(Lumsump)				
	Item No.199				
199	LT Electrical Connection Charges	8.00	50,000.00	Job	400,000.00
	Basic Rate = Rs. 50000 /-				
	50000+0=50000				
					1,119,981,856.00
	Total				**1,119,981,856.00**
	Add 1% technical scrutiny charges				**11,199,818.5600**
	Add 18% GST				**201,596,734.08**
	Gross Total				**1,332,778,408.64**
	Gross Total in CR				**133.28**